

INTERNATIONAL SEARCH REPORT

Application No
PCT/US2005/008634

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	C07K14/16	A61P37/06 C12N15/62 A61K38/00
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, PAJ, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	COHEN SANDRA S ET AL: "Pronounced acute immunosuppression in vivo mediated by HIV Tat challenge" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 96, no. 19, 14 September 1999 (1999-09-14), pages 10842-10847, XP002333498 ISSN: 0027-8424 page 10843, column 2, paragraph 2; figure 2; table 1	4-7, 10-16
Y	& US 6 667 151 B1 (COHEN DAVID I) 23 December 2003 (2003-12-23) columns 10,11,13; tables 1,2 ----- -/--	4-7, 10-16
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family		
Date of the actual completion of the international search 28 June 2005		Date of mailing of the international search report 03/08/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Renggli-Zulliger, N

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	REINHOLD D ET AL: "HIV-1 Tat: immunosuppression via TGF-beta1 induction" IMMUNOLOGY TODAY, ELSEVIER PUBLICATIONS, CAMBRIDGE, GB, vol. 20, no. 8, 1 August 1999 (1999-08-01), page 384, XP004177368 ISSN: 0167-5699 the whole document	1-16
X	WO 00/59935 A (MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH; PAYA, CARLOS; ALGE) 12 October 2000 (2000-10-12)	1-3,8,9
Y	page 28.; figures 2,9	4-7, 10-16
X	EMBURY JENNIFER ET AL: "Proteins linked to a protein transduction domain efficiently transduce pancreatic islets" DIABETES, vol. 50, no. 8, August 2001 (2001-08), pages 1706-1713, XP002333499 ISSN: 0012-1797	1-3,9
Y	abstract	4-7, 10-16
X	FAWELL S ET AL: "TAT-MEDIATED DELIVERY OF HETEROLOGOUS PROTEINS INTO CELLS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 91, January 1994 (1994-01), pages 664-668, XP002918771 ISSN: 0027-8424	1-3,8
Y	abstract	4-7, 10-16
X	BOYKINS ROBERT A ET AL: "Immunization with a novel HIV-1-Tat multiple-peptide conjugate induces effective immune response in mice" PEPTIDES (NEW YORK), vol. 21, no. 12, December 2000 (2000-12), pages 1839-1847, XP002333500 ISSN: 0196-9781	1-3,8
Y	page 1841; figures 1,2,5,6	4-7, 10-16
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VOCERO-AKBANI A M ET AL: "Killing HIV-infected cells by transduction with an HIV protease-activated caspase-3 protein" NATURE MEDICINE, NATURE PUBLISHING, CO, US, vol. 5, no. 1, January 1999 (1999-01), pages 29-33, XP002228967 ISSN: 1078-8956	1-3,9
Y	abstract; figure 1	4-7, 10-16
A	----- ENSOLI BARBARA ET AL: "HIV-1 Tat vaccines" VIRUS RESEARCH, vol. 82, no. 1-2, 30 January 2002 (2002-01-30), pages 91-101, XP002333642 ISSN: 0168-1702 page 93, column 2	1-16
P,X	----- GIANNOULI C ET AL: "FUSION OF A TUMOUR-ASSOCIATED ANTIGEN TO HIV-1 TAT IMPROVES PROTEIN-BASED IMMUNOTHERAPY OF CANCER" ANTICANCER RESEARCH, HELENIC ANTICANCER INSTITUTE, ATHENS,, GR, vol. 23, no. 4, July 2003 (2003-07), pages 3523-3532, XP009031082 ISSN: 0250-7005 figures 1,5	1-16
E	----- WO 2005/030799 A (AVI BIOPHARMA, INC; MOURICH, DAN, V; MOULTON, HONG, MU; HINRICHS, DAVI) 7 April 2005 (2005-04-07) page 27 - page 28; example 4 -----	1-16

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 10-16 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6667151	B1	23-12-2003	US 2003215797 A1	20-11-2003
			US 2004265908 A1	30-12-2004
			AU 6631100 A	13-03-2001
			CA 2398269 A1	22-02-2001
			EP 1246647 A1	09-10-2002
			WO 0112220 A1	22-02-2001
WO 0059935	A	12-10-2000	AU 4198200 A	23-10-2000
			WO 0059935 A1	12-10-2000
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